

Facility helps oil industry solve slippery problem

A new facility in Argonne-East's Building 208 is helping U.S. industry improve spray nozzles used in the production of gasoline.

A large fraction of the U.S. gasoline supply is produced by fluid catalytic cracking (FCC) of oil feedstocks. In an FCC unit, the feedstocks are atomized by dispersion-steam-assisted nozzles. The proper degree of atomization, and the spray patterns that result, can improve gasoline yield by up to five percent, with a corresponding decrease in the production of dry gas and low-grade fuel oil.

Argonne's facility for testing FCC nozzles uses state-of-the-art computer-controlled laser-optics instrumentation to measure the size, speed and distribution of atomized droplets in air. Such measurements have enabled Argonne engineers to develop a computer model and numerical database to help oil refiners, nozzle vendors, and other organizations to understand how atomized droplets interact with themselves and with catalyst particles in the FCC process. The ability to determine the optimum feed-spray pattern will aid in the design and fabrication of better feed nozzles.

The closed-water-loop facility is capable of testing air-assisted commercial-size nozzles with capacities up to 300 gallons per minute.

The facility is accessible to



NOZZLE-DAZZLE — Laser beams criss-cross an atomized spray produced by a sample nozzle at Argonne's test facility. State-of-the-art equipment lets users analyze FCC nozzle spray patterns to maximize yields.

outside organizations through research agreements with Argonne. Nozzle vendors or oil refiners can bring their nozzles to Argonne, obtain data on atomization behavior, and evaluate the data for specific feedstocks and FCC operating conditions.

The companies can then use data from Argonne's facility to improve FCC yield by:

- Improving nozzle design,
- Selecting alternative nozzles

The facility is capable of testing nozzles with capacities up to 300 gallons per minute.

for the intended application,

- Refining the placement of nozzles in the riser, or
- Selecting suitable FCC operating conditions.

Argonne developed the FCC nozzle facility under a cooperative research and development agreement (CRADA) with Amoco Corporation, Chevron Research and Technology Company, Phillips Petroleum Company, and UOP. Argonne's effort in the CRADA was funded by the Department of Energy's Energy Research, Laboratory Technology Research Program.

In a complementary CRADA task, Argonne is developing a mixed-zone hydrodynamics model to determine how atomization parameters affect the overall yield of FCC units. The model interprets the nozzle data from the particle analyzer to determine the interaction of droplets with gas and catalyst particles.

For more information, contact Rajesh Ahluwalia (TD) at ext. 2-5979.

ANL-E to host millennium open house

Argonne-East will host an open house next year as a kickoff event for the "discovery and technology" portion of Project Millennium, a year-long celebration of the coming millennium.

"Discovery 2000: Illinois Science and Technology Expo" will be held on site April 30 and May 1, 1999.

Argonne, along with the Museum of Science and Industry, the Illinois Coalition and the Illinois Institute of Technology will work to highlight the Chicago area's contributions to science and technology — past, present and future.

Similar to the open houses of the past, Argonne's scientists will have the opportunity to exhibit their research and developments to the public in booths set up around the site.

Argonne will also invite Illinois businesses, educational institutions, laboratories and other organizations with an interest in science and technology to participate in the expo.

The mission of Project Millennium is to bring the citizens of the City of Chicago, the State of Illinois, the Midwest region and beyond together with the area's institutions of learning and artistry. The year will be divided into six different themes, with the months of May and June focusing on discovery and technology. Programs and events will take place at different venues throughout the Chicago area.

Argonne will also participate in a Project Millennium event at the Museum of Science and Industry on May 7-9 of next year.

Bulletins will continue to be posted on boards

The weekly bulletin board announcement system has been updated to prevent delays in communication and increase accessibility for all employees.

All weekly bulletin board announcements can now be accessed on the World Wide Web at

<http://www.hr.anl.gov/anlbb>. In addition, copies of all announcements will continue to be posted on local bulletin boards.

The creation of the web page has changed the distribution process for announcements. Employees responsible for maintaining

each area's boards will no longer receive announcements in the mail. Instead, HR will send weekly e-mail updates to designated employees who will print out new bulletins directly from the web page and post them to the boards.

Web page highlights lab's Transportation Center

Argonne's Transportation Technology R&D Center has a new home page on the World Wide Web at <http://www.transportation.anl.gov/>.

The center focuses on automobiles, trucks, railroads, intelligent transportation systems and transportation of hazardous materials. Within these five broad areas, spe-

cific Argonne researchers are developing transportation technologies that are safer, cleaner and more efficient. Argonne's transportation program involves employees and facilities from 10 divisions.

The web page has information on research programs, technology assessments, student competi-

tions, facilities and reports and papers. There are also links to Transportation Program publications like FutureDrive, which focuses on student competitions, and TransForum, a quarterly publication covering Argonne's transportation technology research and development.

Moszur and Worrell receive DOE's 'Pride Award'

Two Argonne employees were honored with the Department of Energy Secretary's PRIDE Award, honoring those in the DOE community who have provided service above

the call of duty, at a ceremony July 28 at the Chicago Operations Office.

Fred Moszur, manager of applications and tools (ECT), and Vicki Worrell, administrative assistant

(ECT), were presented the award in recognition of their efforts in support of the selection of a new contractor to manage and operate Brookhaven National Laboratory.

Office computer software classes offered by ECT

Electronics and Computing Technologies will offer several classes in office computer software during September.

Unless otherwise specified, classes will be held in Argonne-East's Building 221, Room A142, are limited to eight participants and cost \$135. Complete class descriptions and schedules are available online at <http://www.anl.gov/ECT/courses/>. For information about enrollment procedures, call Diane Cavazos (ECT) at ext. 2-7153 or send e-mail to dkcavazos@anl.gov

■ Introduction to Windows 95 (ECT300) — Tuesday, Sept. 8, 8:30 a.m. - 11:30 a.m., or Tuesday, Sept. 15, 8:30 a.m. - 11:30 a.m.

■ Intermediate Windows 95 (ECT305) — Tuesday, Sept. 22,

8:30 a.m. - 11:30 a.m.

■ Introduction to Access Version 97 (ECT332) — Thursday, Sept. 24, 8:30 a.m. - 4:30 p.m. Cost: \$195.

■ Intermediate Access Version 97 (ECT333) — Thursday, Sept. 10, 8:30 a.m. - 4:30 p.m. Cost: \$195.

■ Advanced Access 97 (ECT334) — Thursday, Sept. 17, 8:30 a.m. - 4:30 p.m. Cost: \$195.

■ Upgrading Word Version 7.0 to 97 (ECT335) — Tuesday, Sept. 8, 1:30 p.m. - 4:30 p.m.

■ Upgrading Excel Version 7.0 to 97 (ECT336) — Wednesday, Sept. 9, 8:30 a.m. - 11:30 a.m.

■ Upgrading PowerPoint Version 7.0 to 97 (ECT337) — Wednesday, Sept. 9, 1:30 p.m. - 4:30 p.m.

■ Basic Word Skills 97 (ECT338) — Tuesday, Sept. 15, 1:30 p.m. - 4:30 p.m.

■ Word 97: Applying Formatting (ECT339) — Tuesday, Sept. 22, 1:30 p.m. - 4:30 p.m.

■ Introduction to Internet Using Web Browsers (ECT330) — Tuesday, Sept. 29, 8:30 a.m. - 11:30 a.m. Class will be held in Building 201, Room 167C. Class size limited to 10.

■ Basic Excel Skills 97 (ECT340) — Wednesday, Sept. 16, 8:30 a.m. - 11:30 a.m.

■ Excel: Improving Worksheet Appearance 97 (ECT341) — Wednesday, Sept. 23, 8:30 a.m. - 11:30 a.m.

■ Introduction to PowerPoint 97 (ECT342) — Wednesday, Sept. 16, 1:30 p.m. - 4:30 p.m.

■ Intermediate PowerPoint 97 (ECT343) — Wednesday, Sept. 23, 1:30 p.m. - 4:30 p.m.

Class will help improve participants' English skills

Space is available in a 10-week course designed to help non-native speakers improve their English language skills on the job.

The English as a Second Language course will be held from 11:30

a.m.-1 p.m. beginning Oct. 21 on Wednesdays and Fridays in Argonne-East's Building 201, Room 238. The \$375 cost of the class includes textbooks. A pretest, required for all new participants, costs \$30.

Participants will learn English through a culturally interactive approach combining practical listening, speaking and writing skills.

For more information, call Betty Iwan (HR) at ext. 2-3410.



Last splash

A young visitor to the Argonne pool enjoys a cooling dip. The Argonne Pool closed for the season on Aug. 21.

PSI selling items with lab's logo

The Argonne Chapter of Professional Secretaries International will sell baseball caps, key clasps and insulated lunch bags at lunchtime every Friday during August in Argonne-East's Building 213 Cafeteria.

The sale will help raise funds for scholarships for high school aides.

Those who cannot make it to the cafeteria can call Mary Ann Hejny (CMT-AC) at ext. 2-4379.

Service Awards

Service Awards for July include:

40 Years

Norbert W. Golchert (EMO), Leonard Leibowitz (CMT).

35 Years

Harry R. Bell (PFS-DR), Glen L. Chapman (CMT), George Coleman (PFS-DR), Darrell C. Cutforth (ED), Eric M. Dean (ED), Ronald J. DeLand (ECT-EE), Lawrence D. Johns (PNS), David W. Knowles (OD).

30 Years

Gail L. Farmer (IPD-MED), John D. Gonczy (CMB), Robert C. Kendall (PFS-BM), Krishnamurthi Natesan (ET), Sally L. Peters (OCF-PRO), David C. L. Price (MSD), Wayne M. Smith (PFS-MAT),

Richard W. Swanson (ED).

25 Years

Gary L. Batte (RPS-CCS), David A. Clayden (OD), Ronald L. Jones (OD), Marie-Louise Saboungi (MSD), Shirley A. Scott (TD), Darlene J. Tonelli (IPD-MIS), Stanley Zellmer (ES).

20 Years

Delbert L. Bowers (CMT-AC), Virginia B. Dow (HR), Henry A. Houser III (OD), James C. Polacek (OD-PS), Eugene A. Rackow (MCS), Carmen S. Sabau (CMT-AC), Margaret K. Singh (ES), Jo K. Young (ECT-ADM).

15 Years

Mary L. Gomora (OCF-ACT), Nancy J. Ihrig (RPS-HR), Nghe Thi Nguyen (OCF-

ACT), Ross Overbeek (MCS), Clifford R. Pitts Jr. (ASD), Paul V. Schoessow (HEP), Hsien-Hau Wang (CHM).

10 Years

Louis A. Bumb (ED), Frederick J. Dudek (ES), Barbara L. Hall (ASD), Jesus Morales (PFS-GR), Gayle L. Pietro (ERD), Janice T. Sejut (OCF-PRO), Phillip K. Strickhorn (PHY).

5 Years

Janice Adams (PFS-MAT), Maria A. Addison (ASD), Kurt Alford (CMT), Donnie Awalt (PFS-US), Norma Barrett (DIS), Steven J. Bettenhausen (ESH-FD), Kevin Byrne (CMT), Janet K. Daggett (PFS-CU), Douglas R. Lucas (ESH-HP), Scott W. Petersen (ASD), Hugh Wheeler (PFS-US).



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Vacuum society to hold meeting at Argonne-East

The Prairie Chapter of the American Vacuum Society will hold its fall meeting in Argonne-East's Building 402 Conference Center Tuesday, Sept. 15.

The symposium will feature invited papers as well as contributed papers and posters. A vendor exhibit will be held and will include a raffle. A one-day course covering the basics of vacuum technology is also scheduled.

For more information, contact Richard Rosenberg (ASD) at ext. 2-6112, or send e-mail to rar@aps.anl.gov.

Argonne-West 'Relay for Life' raises \$4,200

The Women in Science and Technology (WIST) at Argonne-West raised \$4,200 for the American Cancer Society at the Relay for Life on July 31 and Aug. 1 in Idaho Falls.

The 14-member WIST team took turns walking throughout the night for a cumulative total of 18 hours.

Participants were: Jennifer Turnage, Dawn Rees, Jean Benedict, Maureen Finnerty, Mary Adamic, Serena Martinez, Linda Hansen, Hope Forsmann (all ED), Monica Peterson (RPS), Dawn Davidson (OD), Nancy Stewart (OD), Amy Powell (ED), Rebecca Edwards (ED) and Kelly Lively (ED).

Other employees got involved

with activities at the event as well. Collette Brooks (ED) and Linda Lewis (RPS) did face painting and Robin Stewart (ED) and David Hunt tied balloons.

The Argonne-West WIST team raised the most money of the 32 participating teams. Each team member was responsible for recruiting her own sponsors.

Materials 'collaboratory' featured on cable show

Argonne's prototype of the laboratory of the future and its role in education is featured on cable provider MediaOne's "Update" program through the end of August.

Researchers demonstrated prototypes of the U.S. Department of Energy's Materials Microcharacterization Collaboratory (MMC) ear-

lier this summer to U.S. House and Senate members at "The Expo of the Future of Experimental Science—A Novel Use of the Internet." Argonne led the educational portion of the demonstration.

The Argonne segment runs during "MediaOne Update," seen on the public channel on:

■ Saturday, Aug. 21 - 1:30 p.m. and 5 p.m.

■ Monday, Aug. 24 - 8 p.m.

■ Tuesday, Aug. 25 - Noon

■ Thursday, Aug. 27 - Noon and 10 p.m.

■ Saturday, Aug. 29 - 1:30 p.m. and 5 p.m.

■ Monday, Aug. 31 - 8 p.m.

Seminars

Send seminar listings to Evie Fagan, Building 201, Room 2U-09 (OPA-201). Deadline is 5 p.m. Monday. Seminar listings *only* can be sent by e-mail to efagan@anl.gov. Note new e-mail address.

Monday, August 24

High Energy Physics Division Theoretical Physics Seminar: **"Time-Dependent Features of Wigner Functions"** by Thomas Curtright, University of Miami, Coral Gables, Fla. 2 p.m., Bldg. 362, Conference Room E188.

Tuesday, August 25

Energy Technology Division Seminar: **"Mechanical Properties and Sintering Behavior of New Developed P/M Steels"** by Annett Schoeler, (CMT). 10:30 a.m., Bldg. 212, Conference Room A157.

Thursday, August 27

Chemistry Division Seminar: **"Hydrocarbon Radicals: Spectroscopic, Kinetic and Mechanistic Studies"** by Askar Fahr, National Institutes of Science and Technology, Washington, D.C. 11 a.m., Bldg. 200, Conference Room J183.

Strategic Simulation Combustion Seminar: **"Basic Features of Flame-Surface and Flame-Flame Interactions in Combustion: Observation, Theory, Numerics and Experiment"** by Indrek Wichman, Department of Mechanical Engineering, Michigan State University, East Lansing. 1 p.m., Bldg. 221, Conference Room C230.

Center for Mechanistic Biology & Biotechnology General Seminar: **"Somatic Mutations in Mitochondrial DNA: Do They Cause Aging?"** by Konstantin Khrapko, instructor in medicine, Division on Aging, Harvard Medical School, Boston, Mass. 3:30 p.m., Bldg. 202, Conference Room B169.

Monday, August 31

Energy Technology Division Seminar: **"About the Mechanism(s) of Formation of the 3-Cu-Layer Bi- and Ti-HTSC"** by Peter E. D. Morgan, research scientist, Rockwell Science Center, Thousand Oaks, Calif. 10:30 a.m., Bldg. 212, Conference Room A157.

Thursday, Sept. 3

Physics Division Theoretical Physics Seminar: **"QCD in Coulomb Gauge"** by Eric Swanson, North Carolina State University, Raleigh. 3 p.m., Bldg. 203, Conference Room B221.

Friday, Sept. 4

Energy Systems and Materials Science Divisions Joint Seminar: **"Kinetic Inhibition, Formation Kinetics and Structural Transition in Gas Hydrates"** by Vu Thieu, Center for Hydrate Research, Colorado School of Mines, Golden. 2 p.m., Bldg. 360, Conference Room L119.

Check the Argonne News Web site for late additions to the seminar listings:
<http://www.anl.gov/OPA/local/anlnews.html>

Pacesetter Awards

Reactor safety effort leads to \$2M program

Jeffrey Binder (RE) led the development of Argonne's participation in the U.S. Department of Energy's program to improve the safety of Soviet-designed nuclear reactors. His efforts led to a long-term program worth \$2 million per year. Binder coordinates in-depth safety assessments at a variety of reactors in Russia and Ukraine and infrastructure support projects in most of the countries of the former Soviet block. At DOE's request, he has accompanied State Department officials to international meetings, providing technical advice and negotiating agreements with government officials in Ukraine.

Kazakstan work may lead to future joint effort

Pete Planchon, Engineering Division associate director, developed a cooperative program with the Republic of Kazakstan to safely remove, transport and store spent nuclear fuel from a commercial-size sodium-cooled reactor. The program required extraordinary effort and insight, involving questions related to reactor physics, fuel performance, safety and security. The resulting relationships and confidence in Argonne is expected to lead to future cooperation.



What's for lunch?

Menus for the cafeterias at both Argonne sites and the Guest House are at: <http://www.anl.gov/OPA/local/anlnews.html>

Classified Ads

MISCELLANEOUS

MISCELLANEOUS — Great Books of the Western World, 64 volumes. \$350. Sauna furnace, 2K watts. \$125. Garage door, 10', w/all hardware. \$125. Telefunken radio cassette. \$60. Benno Naderer, (630) 963-5758.

TELEVISION — 19" Daiwa color TV, brand new, still in carton, won at raffle. \$150. G. Connelly, (630) 257-6419.

EXERCISER — Recumbent bicycle type exerciser, digital readout of time, distance, speed, etc, excellent condition. \$100. Cathy Riblon, (815) 744-9544.

FURNITURE — 5 bar chairs. \$100. Couch. \$70. Recliner. \$60. Chair. \$20. Maria Addison, (630) 257-0092.

YARD SALE — Multi-family, Aug. 22 & 23, 10 a.m. - 6 p.m., clothes, newborn to adult & more, 2306 Madonna, Joliet, MaryCrest Subdivision. Ellen O'Brien, (815) 838-1187.

MISCELLANEOUS — Sanyo boom box, CD, cassette, AM-FM radio, fully functional. \$25. H.V.A.C. tools, meters, parts, call for a list & prices. Jim Podraza, (708) 687-0607.

COMPUTER — New Cyrix, 233MMX, Mid-tower, 3.2GB W.D. H.D., 1.44 MB, 24X CD-rom, 32 MB edo RAM, 33.6 KB modem, 3D-wave sound, 80W speakers, keyboard, mouse, windows 95 & more software. \$734. Carl Nelson, (815) 886-9386.

DESK — Girl's desk w/four drawers & pastel flower design, chair included, matching whimsical headboard. Elena Vinokour, (630) 663-9334.

MISCELLANEOUS — Baby crib. \$40. Mattress. \$25. Electronic typewriter. \$50. Queen-size water bed mattress, new. \$50. Ice maker, new. \$50. Girl's bike. \$25. Rice Cooker. \$10. Stroller. \$5. Josephine Chang, (630) 983-8054.

FURNITURE — Roll-up classical desk. Adjustable dinning table w/4 chairs. Cedar chest. All like new, excellent condition. Filippos Patsiogiannis, (630) 527-0553.

MISCELLANEOUS — Beanie Babies, 1, Doodle. 2, Goldie. 1, Twigs. 1, Spike. 2, Pugsey. 1, Legs. \$110. 4, Appalachian Craft "Furskins" bears. \$15. Avon commemorative "Mother Day" plate, '72, boxed. \$12. Ralph Lauren handbag, light blue denim w/leather flap & trim. \$30. Martha Teitlus, (708) 233-2654.

MISCELLANEOUS — New, Singer 14 stitch sewing machine. New \$100 - asking \$60. Slimline regular phones, new. \$10/each. Mickey & Minnie Mouse watches. Half of retail price. \$14 - \$20. Chuck Gettemy, (630) 910-0462.

BOAT — '92 Smokercraft 162 Pro Magnum, 50 hp Mercury outboard, power tilt, 2 fish locators, 2 live wells, shorelander trailer, new 45 lb. thrust trolling motor, many accessories, excellent condition. \$7,500. Sharon Salmon, (815) 426-2604 - after 3 p.m.

HOCKEY EQUIPMENT — 1, helmet, white w/cage, Cooper, model SK2000S. \$50. Knee/shin guards, Cooper, Model SG300, size XL (12.5"). \$15. Both in excellent condition. Robert Utesch, (630) 985-6972.

Classified ad request forms are available in stockrooms, at the Office of Public Affairs in Building 201, and at Argonne-West's Building 752, Room D109. The old half-sheet forms are acceptable, but note that the deadline is incorrect. Deadline for classified ads is **5 p.m. Monday**.

Requests can be submitted by fax to ext. 2-5274, or by inter-office mail to Evie Fagan, Building 201, Room 2U-09 (OPA-201). A drop-off box is located at the *Argonne News* office, Building 201, room 2Q-02 and at 2U-09.

Request forms must be signed and must include a home phone number. Ads cannot be accepted by phone or electronic mail. Please limit ads to 25 words; longer ads may be edited. Housing listed for sale or rent is available without regard to race, creed, color or national origin.

Argonne-West employees are welcome to submit classified ads to *Argonne News*. Request forms are available at the office of Argonne-West Correspondent Dolores Lagerquist, Building 752, Room D109. When completed, fax the request form to the *Argonne News* office at (630) 252-5274.

HOME HEALTH CARE ITEMS — Foldable wheel chair. Foldable walker w/wheels. 4-prong cane. Commodes. Elevated Toilet seat. Guard rails for toilet seat. 3" rehab safety belt. Elizabeth Zitko, (630) 985-7118.

BICYCLES — Scout Mountain bike. \$100. Raleigh Triumph bike. \$50. Assortment of other bicycles at various prices. \$40 - \$125. Sandra Tollaksen, (630) 897-2339.

TOOL BOX — Craftsman top box, Rem-Line bottom box. \$100/both. Rich Vitt, (630) 972-1005.

MISCELLANEOUS — Kenmore, built-in black glass oven. \$25. Tappan, built-in 4-burner cooktop. \$10. Medicine cabinet w/3 mirrors. \$10. Sink. \$5. Technics SLB, 3-turn table, needs arm head. \$5. Jonathan Trent, (630) 963-9220.

BICYCLES — Girl's Huffy "Glamour Girl", 20", purple & pink, excellent condition. \$40. Rand "Barbie", 16" w/training wheels, pink & white, excellent condition. \$30. Dennis Tussing, (630) 969-3231.

MISCELLANEOUS — Sega Genesis system w/4 sport games. \$50. Art DeBaere, (630) 213-4427.

CASSETTE PLAYER — Auto stereo cassette player w/digital AM/FM radio, graphic equalizer, clock, 2, 100W 6" dual-cone stereo speakers. Rampage by Audiovox. \$50. Loretta Phillips, (630) 739-2210.

MISCELLANEOUS — Weight bench outfit, good shape. Best offer. Jim Oprzedek, (773) 586-0044.

TRUCK CAP — '85 Chevrolet S10, will fit other years, almost new, excellent condition. New \$250 - asking \$30 o.b.o. John Miller, (630) 969-7929.

COMPUTER — Apple PowerMac 7100/66 MZ, 56M RAM, color monitor, color printer, zip drive, 33.6 modem, Mac OS 8.0. \$450. Christine O'Brien, (708) 503-1861.

MOVING SALE — Household items only, no furniture. Call for list of items. Pat Peterson, (630) 986-0487.

AUTOMOBILES

1979 MAZDA — RX7, good condition, partially restored, 104K miles, well maintained. \$1,500 o.b.o. Ken Belcher, (630) 690-4961.

1988 PONTIAC — Grand Am, AC, AT, AM/FM cassette, cruise control, tilt wheel, 94K miles, good condition, no engine oil leak. \$1,200 o.b.o. Xingyue Li, (630) 493-1107 or <Daniel.X.Li@ual.com>.

1989 TOYOTA — Tercel, 136K miles, manual, 5-speed, AM/FM cassette, runs very well. \$900 o.b.o. Alexandre Huguet, (630) 252-9754.

1988 SUZUKI — Intruder motorcycle, 750 cc, 11K miles, black, reliable, excellent condition. \$2,500 o.b.o. Todd Trotter, (630) 261-9750.

1988 FORD — Escort GT, hatchback, PB, PS, AC, 5-speed, stereo tape, recent brakes, good transportation car. \$850. Jonathan Trent, (630) 963-9220.

1989 GEO — Metro, runs well, 185K miles. \$450. Jeff Toeller, (630) 876-9481.

1996 BLAZER — Black w/tan bottom, fully loaded, 56K miles, 1 owner, new tires, excellent condition. Rich Trzupek, (630) 968-5445.

1991 FORD — Taurus GL, AC, AT, cruise, all power, new tires, V6, 114K miles, runs well. \$2,800 o.b.o. Juha Uusitalo, (630) 421-7172.

1992 PLYMOUTH — Voyager, 7 passenger, PDL, AC, cruise, tinted glass, roof rack, captains chairs, excellent condition, one owner, garaged, very sharp. \$5,895. Lou Harnisch, (630) 257-2345.

HOUSING

HOUSE/SALE — 8315 Helen Court, Downers Grove, IL., 10 minutes from lab., 2-story, 3,250 sq. ft., 3 bedrooms, 2 baths on second floor, kitchen w/dinette, family room, formal dining room, living room, bath on main floor, finished basement. \$249,900. John Hansen, (208) 523-4445.

ROOM/RENT — 3.7 miles from ANL, Willowbrook, use of kitchen & laundry clean, quiet. Alexander Bondarenko, (630) 325-0497.

CONDO/RENT — Available Oct. 1, The Knolls, Willowbrook, large one bedroom w/fireplace unit, completely remodeled, new kitchen bath, carpeting, close to bus & train, includes heat & water. \$700/month. Jim Oprzrdek, (773) 586-0044.

HOUSE/RENT/SALE — Beautiful 2-story colonial house, hardwood floors throughout, fully remodeled, FT w/cathedral ceiling, skylights, fire place, 4-bedrooms, 2.4 baths, 15 minutes from lab., park, pool, YMCA. Downers Grove. Elena Vinokour, (630) 663-9334.

HOUSE/RENT — LaGrange, 3K + sq. ft., 4-bedrooms, 2.5 baths, 3 level, 2 fireplaces, CAC, new carpet, .75 acre, landscape service included, no pets. \$1,850/month. Gene Palys, (708) 354-2088.

HOUSE/SALE — Homer Township, very quiet subdivision, on dead-end street, 4-bedrooms, huge master bedroom w/cathedral beamed ceiling, 2.5 baths, separate dining room, full basement, large custom kitchen w/cooking island & ceramic floor, laundry room w/closet off kitchen, great room w/wood burning fireplace, patio & deck w/screened porch off kitchen, brick/cedar exterior, front porch, 2.5 garage, 1-acre landscaped, tree lined lot w/small decorative pond. \$250,000. Marilyn Gliva, (815) 838-7793.

WANTED

HAMSTER CAGE — And any supplies. Heidi Vece, (815) 726-4316.

FLAGSTONE — Will haul. Laurie, (815) 254-2785.

ROOMMATE — To share 3 bedroom house w/single mom, Romeoville, 15-20 minutes to lab. \$425/includes all utilities. Joanne Thomas (815) 723-0681.

SYNTHESIZER — Moog synthesizer, series 900. Eric Lindert, (630) 493-1837.

TO BE GIVEN AWAY

KITTENS — Female kitten, 10 weeks old, along with 1-2 year old mom, healthy, friendly & groomed, ready for good home(s). Joanne Thomas, (815) 723-0681.

DOG — 4 years old, female, black lab, spaded, house trained, good w/children 4 years or older. Jim Oprzedek, (815) 485-8988.

MISCELLANEOUS — GE washer/dryer, large capacity, dryer in very good condition, washer works well now, has limited life left. Twin-size box spring, mattress & frame. John Miller, (630) 969-7929.

**Need information
about
Benefits?
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Argonnet
<http://www.anl.gov/OPA/argonnet/>